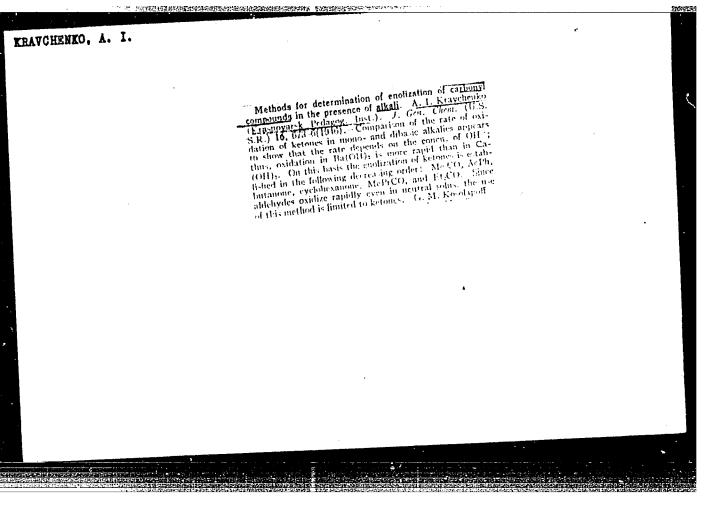
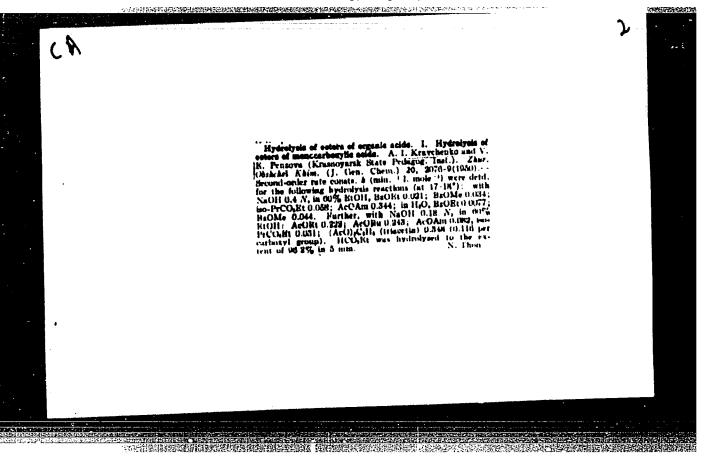
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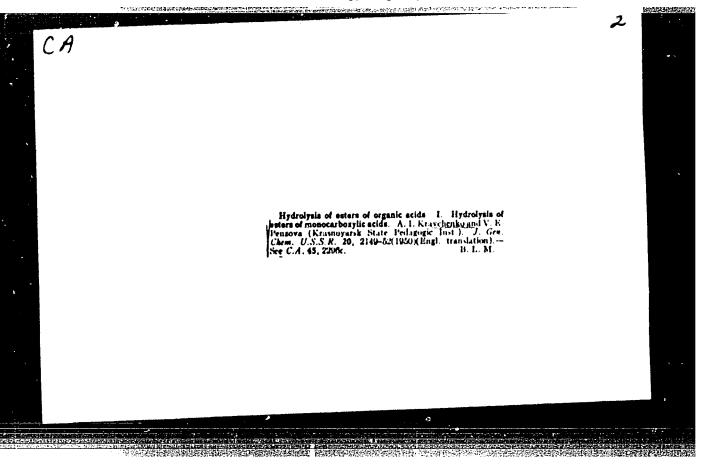
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USSR/Kinetics - Combustion. Explosions. Topochemistry. Catalysis.

: Referat Zhur - Khimiya, No 6, 1957, 18602 Abs Jour

A.I. Kravchenko.

: Krasnoyarsk State Pedagogue Institute. T. State University. Author Inst

: Oxidation of Alcohols and Ketones by Potassium Permanga-Title

nate in Presence of Catalysts.

: Uch. zap. Krasnoyar. gos. ped. in-ta, 1956, 5, 159-165 Orig Pub

The kinetics of oxidation of isopropyl (I), n-butyl (II) Abstract

and izobuty. (III) alcohols in neutral, acid and alkaline solution, as well as the oxidation kinetics of ketones acetone (IV', butanone (V) and acetophenone (VI) and II in neutral solutions in presence of Na2CO3 or K2CO3, by KMnO4 at 17 to 180 were studied. The oxidation speed ratio in alkaline, acid and neutral solutions is as follows: for I - 29.7: 1.71: 1; for II - 24.30: 29.89: 1.17; for III - 23.36: 27.62 (the speed in neutral solutions has not been determined). The oxidation speed

- 246 -Card 1/2

USSR/Kinetics - Combustion. Explosions. Topochemistry. Catalysis. B-9

: Referat Zhur - Khimiya, No 6, 1957, 18602 Abs Jour

> ratio in presence of Na₂CO₃, K₂CO₃ in neutral solutions is as fellows. for IV - 909.8: 90.98: 1; for V -290.4 : 220 : 1; for VI - 258.9 : 91.5 : 1; for II -1.8: 1.4: 1. The acceleration of oxidation of ketones in presence of alkaline salts is explained by their enolization. The oxidation acceleration of I in presence of an alkali is explained by the formation of an intermediate product (ketone) and its enclipation (A.I. Kravchenko, Tr. 1GU, 1938, 94, 55-73). It is proposed to use the difference of oxidation speed of primary and secondary alcohols in acid and alkaline solutions for the qualitative determination of primary and secondary alcohols.

AUTHORS:

507/79-28-7-24/64 Sergiyevskaya, S. I., Levshina, K. V.,

Chizhov, A. K., Gavrilova, A. I., Kravchenko, A. I.

TITLE:

N-Di(Ethyl Chloride) Amines of the Alicyclic Series. I(N-Di

(khloretil) aminy alitsiklicheskogo ryada. I)

PERIODICAL:

Zhurnal obshchey khimii, Vol 28, Nr 7,

pp. 1839 - 1845 (USSR)

ABSTRACT:

The authors discuss the synthesis and some properties of the dichloroalkylamines of the cyclopentane-, cyclohexane- and cycloheptane-series. They synthetized the compounds of two types: In the one (Formula I) the di(chloroalkyl) amino group is directly bound to the carbon of the nucleus, and in the other to the carbon of the side chain (II). The compounds of type (II) are alicyclic derivatives of methyl-N-bis (ethyl chloride) amine which is of importance for medicine. The two methods used most were employed for the synthesis of N-di(ethyl chloride) amine: according to the one [m(a) of Table 1] the ethylene oxide reacts with the amino compounds, according to the other [=(b) of Table 1] the compounds containing halogens are caused to react with diethanol amine. The final stage, i.e. the substitution of the hydroxyl groups by chlorine is the same

Card 1/3

507/79-28-7-24/64 N-Di(Ethyl Chloride) Amines of the Alicyclic Series. I

for both methods, according to the specific characteristic features of the N-di(oxyethyl)amines. The synthesis of the dichloro-alkyl amines of type (I) had to be carried out according to method (a). The necessary alicyclic amines as initial products had been obtained in the cyclopentane- and cycloheptane series by the reduction of the ketone oximes, and in the cyclohexane series by the catalytic hydration of the aromatic amino compounds. The chloro-methyl derivatives of the same alicyclic hydrocarbons served as initial products for the synthesis of the compounds of type (II). The chloro-methyl cycloalkanes were obtained according to the reaction scheme mentioned. Thionyl chloride served as chlorination agent (I and II)(substitution of hydroxyl by chlorine). There are 2 tables and 8 references, 2 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze (All-Union Scientific Chemical and Pharmaceutical Institute imeni S. Ordzhonikidze)

Card 2/3

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CIA-RDP86-00513R000826230

N-Di(Ethyl Chloride) Amines of the Alicyclic Series. I SOV/79-28-7-24/64

SUBMITTED:

February 7, 1957

Dichloroalkylamines--Synthesis
 Dichloroalkylamines--Properties
 Cyclic compounds--Molecular structure
 Ethyl chloride amines

-- Chemical properties

Card 3/3

KRAVCHENKO, A.I.

Experimental studies on some bicyclic bis-(B-chloroethyl) amines. Vop. onk. 9 no.10:35-39 '63. (MIRA 17:12)

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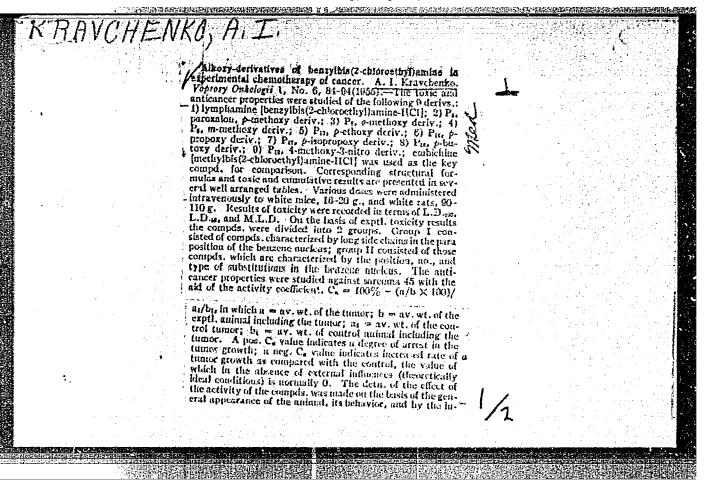
1. Iz laboratorii eksperimental'noy khimioterapii opukholey (rukovo-ditel' - doktor med. nauk V.A.Chernov) otdela khimioterapii (rukovo-ditel' - prof. G.N.Pershin) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S.Ordzhonikidze. Adres avtora: (Moskva, G-21, Zubovskaya ul. d.7, Vsesoyuznyy nauchno issledovatel'akiy khimiko-far-matsevticheskiy institut Imeni S.Ordzhonikidze).

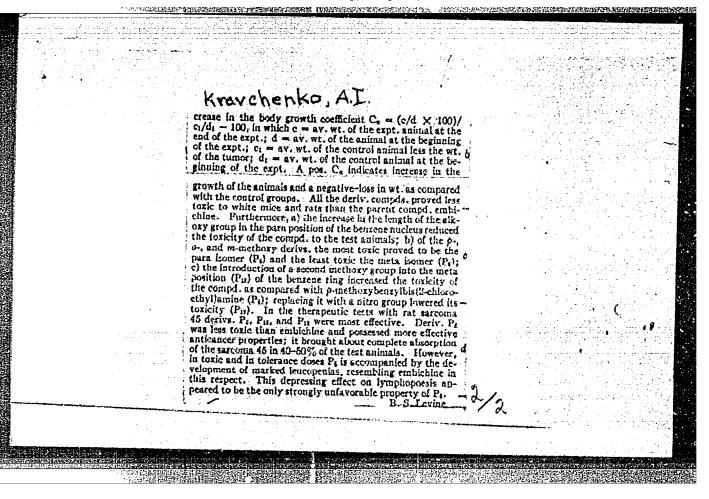
KRAVCHENKO, A. I.

"Alkoxy Derivatives of Benzil-di (B-Chlorethyl) Amine in the Experimental Chemotherapy of Tumors." Cand Biol Sci, All-Union Sci Res Inst of Pharmaceutical Chemistry imeni S. Ordzhodnikidze, Min Higher Education USSR, Moscow, 1955. (KL, No 12, Mar 55)

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SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)





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CONTRACTOR CONTRACTOR

KRAVCHENKO, A.I.

Oytotoxic activity and toxicity of certain alicyclic &-chlorethylamines under experimental conditions [with summary in English]. Yop.onk. 4 no.1:17-23 158. (MIRA 11:4)

1. Iz laboratorii eksperimental'noy khimioterapii opukholey (rukovoditel' laboratorii - V.A.Chernov) otdela khimioterapii Vsesoyuznogo nauchno-isoledovatel'skogo khimiko-farmatsevticheskogo instituta (zav. otdelom - prof. G.N.Pershin). Adres avtora: g. Moskva, Zuhovskaya, ul., d.7, Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut im. S.Ordzhonikidze.

(NITROJEN MUSTARDS.

alicyclic, anti-tumor eff. & tox. (Rus))

TO STATE OF THE PROPERTY OF TH

KRAVCHENKO, A.I.

Mitotic activity of cells in certain transplantable mouse sarcomas.

Vop.onk. 5 no.3:329-332 159. (MIRA 12:12)

1. Iz laboratorii eksperimental'noy khimioterapii opukholey (ruko-voditel' - kand.biol.nauk V.A. Chernov) otdela khimioterapii (ruko-voditel' - prof. G.N. Pershin) Vsesoyuznogo nauchno-issledovatel'-skogo khimiko-farmatsevticheskogo instituta im. S. Ordzhonikidze. Adres avtora: Moskva, Zubovskaya ul., d. 7, Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut im. S. Ordzhonikidze.

(SARCOMA, exper.
mitosis in transplatable mouse sarcoma (Hus))
(CELL DIVISION
same)
(NEOPIASMS, exper.
same)

KRAVCHENKO, A.I.; GRUSHINA, A.A.

CONTRACTOR SECRETARISMENT CONTRACTOR SECRETARISMENT CONTRACTOR CON

Antitumor activity of chlorambucil in an experiment. Vop.cnk. 7 no.5:72-77 161. (MIRA 15:1)

1. Iz laboratorii eksperimental'noy khimioterapii opukholey (rukovod. - kand.biol.nauk V.A. Chernov) Otdela khimioterapii (zav. - prof. G.N. Pershin) Vsesoyuznogo nauchno-issledovatel'-skogo khimiko-farmatsevticheskogo instituta imeni S. Ordzhonokodze. (CHLORAMBUSIL)

KRAVCHENKO, A.I.; KHRAMCHEIKOVA, S.P.

Antineoplastic activity of alkoxy derivatives of p'-bis
(\$\beta\$-chloroethyl)-aminomethyl-azobenzene. Vop.onk. 7 no.12:1926'61. (MIRA 15:1)

1. Iz laboratorii eksperimental'niy khimioterapii opukholey
(rukovod. - kand.biol.nauk V.A. Chernov) otdela khimioterapii
(rukovoditol' - prof. G.N. Pershin) Vseseyuzmogo instituta
im. S. Ordzhonikidze.
(AZO COMPOUNDS) (CYTOTOXIC DRUCS) (AIKOXY GROUPS)

KRAVCHENKO, A.I.

Antitumor activity of some derivatives of bis(beta-chloroethy)-aminomethylazobenzene. Vop. onk. 9 no.11:18-22 '63.

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(MIRA 18:2)

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1. Iz laboratorii eksperimental'noy khimioterapii opukholey (rukovoditel' - doktor med. nauk V.A. Chernov) Otdela khimioterapii (rukov.- prof. G.N. Pershin) Vsesoyuznogo nauchnoissledovatel'skogo khimiko-farmatsevticheskogo instituta imeni Ordzhonikidze. Adres avtora: Moskva, G-21. Zubovskaya ul., 7, Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

Odessa Fumigation Unit. Zashch. rast. ot Vred. i bol. 9 no.1:47-48 '64. (MIRA 17:4)

1. Nachal'nik Odesskogo fumigatsionnego otryada.

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MIRONOV, V.F.; KRAVCHENKO, A.L.

Relative electronegativity of germanium and silicon in organic compounds. Izv. AN SSSR. Ser.khim. no.9:1563-1570 S '63.

(MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Silicon organic compounds-Electric properties) (Germanium organic compounds-Electric properties)

MIRONOV, V. F.; KRAVCHENKO, A. L.

Cleavage of silicon-containing organoaluminum compounds by aluminum bromide. Izv AN SSSR Ser Khim no. 4:768-770 Ap 164.

(MIRA 17:5)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262300

KARTSEV, G.H.; SYRKIH, Ya.K.; KHAVCHENKO, A.I.; MIROHOV, V.F.

Dipole moments of some germanium organic compounds. Zhur. strukt. khim. 5 no.3:492-493 My-Je '64. (MIRA 18:7)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova.

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ACCESSION OF THE PROPERTY OF T

L 53712-65 EWT(m)/EPF(c)/EPR/EWP(1)/E ACCESSION NR: AP5017167	UR/0192/64/005/004/0639/0639
WIHOR: Kartsev, O. N.; Syrkin, Fa. K.; K	ravchenko, A. L.; Hironov, V. F.
TITLE: Dipole moments of trimethylhalogen	
SOURCE: Zhurnal strukturnoy khimii, v. 5,	no. 4, 1964, 639
OPIC TAGS: dipole moment, germanium compo	ound, halogenated organic compound
betract: The dipole moments of four monos CH3)3GeX, where X = F, Gl. Br, and I, were he heterodyne method. The dipole moments and 2.81, respectively. The investigated compour compounds of carbon and silicon, inditipole moment from fluoro-substituted to in same character as for the carbon compound the moment in this series for silicon compounds. When the corresponding silicon compounds. The corresponding silicon compounds are the corresponding silicon compounds.	measured at 25° in benzene by found were 2.51. 2.78. 2.84. ompounds were compared with analcating that the variation of the do-substituted compounds is of nds, but differs from the change mpounds. The ratio u(R ₃ GeX):

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ASSOCIATION: Moskovskiy institute	itut tonkoy of Fine Chem	khimiche zical Tec	skoy tekhno hnology)	and the second second	1. The second	
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L 19613-65 ENT(m)/EPF(c)/ENP(j)/T Pc-li/Pr-li RM

ACCESSION NP: AP5003218

\$/0062/64/000/007/1209/1215

AUTHOR: Mironov, V. F.; Kravchenko, A. L.; Petrov, A. D. (Deceased)

TITLE: Synthesis of carbofunctional germanium compounds from chloromethyltri-methyl germanium ()

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1964, 1209-1215

TOPIC TAGS: germanium compound, chlorinated organic compound, chemical reaction, ether, ester

ABSTRACT: Chloromethyltrimethyl germanium was used in the first synthesis of trimethylgermylmethyl sloohol, its methyl ether and several esters with acetic, acrylic, and methacrylic acids. The dimethyl ester of trimethylgermylmethylmalonic acid was also obtained. Chloromethyltrimethyl-germanium readily forms a Grignard reagent, from which were obtained trimethylgermylacetic acid. Y-butanyltrimethyl-germanium, and other compounds. When concentrated sulfuric acid was added to chloromethyltrimethyl-germanium, methane was quantitatively released and on further treatment with water, bis(chloromethyl)

Card 1/2

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ACCESSION NR: AP5003218

tetramethylidgermanoxane was formed. Treatment with aluminum chloride led to the regrouping of chloromethyltrimethyl-germanium to ethyldimethylchlorogermanium. Reactions based on chloromethyltrimethyl-germanium show no fundamental differences from similar reactions with chloromethyltrimethyl-silane. The authors extend their gratitude to L. A. Leytes and A. A. Bugorkova for their assistance. Orig. art. has:3 formulas and 12 graphs.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences, SSSR)

SUBMITTED: 17Dec62

ENCL: 00

SUB CODS: OC, GC

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OTHER: 009

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L 19615-65 ENT(m)/EPF(c)/ENP(j)/T/ENP(b)/ENP(t) Pc-4/Pr-4 IJP(c)/SSD/AEDC(b)/
AFWL/RAEM(c)/ASD(a)-5/SSD(c)/RAEM(j)/RAEM(1)/ESD(gs)/ESD(t) RM/JD
ACCESSION NR: AP5003220 S/0062/64/000/007/1312/1313

AUTHOR: Yegorochkin, A. N.; Khidekel', M. L.; Razuvayev, G. A.; Mironov, V. F.; Kravchenko, A. L.

TITLE: Proton magnetic resonance spectra of certain elemento-organic compounds of silicon and germanium

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1964, 1312-1313

TOPIC TAGS: proton, organosilicon compound, germanium compound, spectroscopy, magnetic resonance

ABSTRACT: Comparison of proton magnetic resonance spectra of several saturated and unsaturated organic compounds of silicon and germanium revealed that for unsaturated compounds, the effects of d proton and permanium revealed an appreciable role. The spectra were recorded on the JMN-3 spectrometer using cyclohexane as the internal standard. To determine chemical shifts in saturated compounds, cyclohexane was combined with the sample in 1:1 volume ratio. Chemical shifts of proton signals in unsaturated compounds were determined by subsequent dilution with cyclohexane and extrapolation of the data to infinite dilution. It was found that chemical shifts of the CH₃ and CH₂-protons in compounds not containing multiple bonds correspond to Card 1/2

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L 19615-65

ACCESSION NR: AP5003220

greater electroconductivity of germanium compared with silicon and the qualitative notions of the inductive effect of substituents. Thus, in view of the greater electron-donor capacity of the -CH₂-M(CH₃), group, where M = Si, Ge, compared with that of the methyl, resonance frequencies of methylprotons in the compounds $(CH_3)_3M-(CH_2)_n-M(CH_3)$ are shifted toward larger values of γ with respect to the same frequencies in the $(CH_3)_4M$ compounds. Orig. art. has: I graph and I table.

ASSOCIATION: Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennon universitete (Scientific Research Institute of Chemistry at Gor'kiy State University); Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences, SSSR); Institut organicheskoy khimii im.

N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences, SSSR)

SUBMITTED: 25Nov63

ENCL: 00

SUB CODE: OC. OP

NO REF SOV: 001

OTHER: 005

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Card 2/2

ACCESSION NR: AP4034571

B/0079/64/034/004/1356/1357

AUTHOR: Mironov, V. F.; Kravchenko, A. L.

TITIE: New method for synthesizing alkyldichlorogermanes

SOURCE: Zhurnal obshehey khimii, v. 34, no. 4, 1964, 1356-1357

TOPIC TAGS: alkyldichlorogermane, synthesis, trichlorogermane, tetramethyl tin, ethyldichlorogermane, tetraethyl lead, methyldichlorogermane, methylethyledichlorogermane, trimethylethylgermane

ABSTRACT: The proposed method for synthesizing alkyldichlorogermanes comprises, reacting trichlorogermane with tetramethyl tin in ether:

(CH₃)₄Sn +/HGeCl₃ -ether - HGeCl₂CH₃ + (CH₃)₃SnCl

The product yields were 80 and 70%, respectively. Ethyldichlorogermane (boiling, 129.50 at 743 mm, npo = 1.4750) was obtained similarly with a 45% yield. Its yield was increased by using tetraethyl lead instead of the tetraethyl tin. Ethylene bubbled through methyldichlorogermane gave methyl(ethyl)dichloro-

Card 1/2

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ACCESSION MR: AP4034571 germane (boiling 1490 at 750 mm, n_D^{20} = 1.4660) with a 90% yield. The latter was methylated with CH3MgCl to form trimethyl(ethyl)germane. Orig. art. has: 2 equations.

ASSOCIATION: Institut organicheskoy khimii, Akademii nauk 888R (Institute of Organic Chemistry, Academy of Sciences 888R)

SUPMITTED: 18Nov63

DATE ACQ: 11Hay64

encl: 00

SUB CODE: OC.

NO REF SOV: OCO

OTHER: 003

MIRONOV, V.F.; KRAVCHENKO, A.L.; PETROV, A.D. [deceased]

Synthesis of 1,1- and 1,2-bis-(trimethylgermy1)-ethylene'.
Dokl. AN SSSR 155 no. 4:843-845 Ap '64. (MIRA '7:5)

1. Institut organicheskoy khimii AN SSSR. 2. Uler-korrespondent
AN SSSR (for Petrov).

L 16400-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM S/0020/64/158/003/0656/0659

AUTHOR: Mironov, V. F.; Kravchenko, A. L.

TITLE: New preparative method for alkyldichlorogermanes and alkyltrichlorogermanes

SOURCE: AN SSSR. Doklady*, v. 158, no. 3, 1964, 656-659

TOPIC TAGS: germane, alkyldichlorogermane, alkyltrichlorogermane, methyldichlorogermane, ethyldichlorogermane, ethyldichlorogermane

ABSTRACT: A new preparative method has been developed for alkyldichlorogermanes and alkyltrichlorogermanes. It is noted that heretofore alkyldichlorogermanes have been practically unobtainable. Hethyldichlorogermane (b.p., 101.5C et 750 mm Hg) was prepared in 80% yield (on trichlorogermane) by treating tetramethyltin with trichlorogermane etherate. Ethyldichlorosilane (b.p., 130C at 747 mm Hg) was prepared in 80.5% yield by the reaction of tetraethyllead with trichlorogermane etherate.

rogermane etherate. Finally, ethyltrichlorogermane (b.p., 1400 at 750 mm lighes

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L 16400-65 ACCESSION NR: AP4046378				/	
obtained in 90% yield from to last method is recommended. analysis, IR spectroscopy, an Orig. art. has: 4 figures an	Structures were conf	l rmad	he atamant	thie al	
ASSOCIATION: Institut organi Akademi nauk SSSR (Institute SSSR)	cheskoy khimii im. N of Organic Chemistry	D. Z Acad	elinskogo emy of Sci	suces	
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ACCESSION NR: AP	7AJ/RM 5017961 UR/0062/65/000/006/1026/ 661.718.6	(1035 /3 L/	
AUTHOR: Hironov,	V. F.; Kravehenko, A. L.		
TITLE: Synthesis	of organogermanium compounds from tetrameth	ylgermane	
SOURCE: AN SSSR.	Izvestiya. Seriya khimicheskaya, no. 6, 196	5, 1026-1035	
TOPIC TAGS: OFRA	and the compound opposite		
	nogermanium compound, germane		
ABSTRACT: The au halides, determin theses starting f	thors developed methods for the synthesis of ed their basic properties, and carried out a rom these halides. Tetramethylgermane, whic prepared as follows:	deries or syn-	
ABSTRACT: The au halides, determin theses starting f	thors developed methods for the synthesis of ed their basic properties, and carried out a rom these halides. Tetramethylgermane, whic	deries or syn-	
ABSTRACT: The au halides, determin theses starting f this purpose, was	thors developed methods for the synthesis of ed their basic properties, and carried out a rom these halides. Tetramethylgermane, which prepared as follows:	deries or syn-	
ABSTRACT: The au halides, determin theses starting f this purpose, was	thors developed methods for the synthesis of ed their basic properties, and carried out a rom these halides. Tetramethylgermane, which prepared as follows: ClaGe + 4CH3MgBr -> (CH3)4Ge (80%)	deries or syn- h is required for	

L 63639-65	하는 경험에 선생하여 개념을 받아 있다. 전통 경우 전에 가는 것이 되는 것으로 보고 있다면 함께 함께 생각하는 것이 되었다. 그런		7
ACCESSION NR: AP	5017961		7
	(CII ₂) ₄ Ge + i-C ₂ II ₂ Be $\frac{ABF_{4}}{C}$ (GII ₃) ₂ GeBr (92%) (CII ₃) ₄ Sn + n-C ₂ II ₂ Br $\frac{ABF_{4}}{C}$ (CII ₃) ₂ SnBr (80%)	C	
	(CH ₃) ₄ Ge + t-C ₃ H ₁ Cl AtCl ₄ (CH ₃) ₃ GeCl (05%)	D	
	(CH ₃) ₂ G ₂ C ₄ H ₄ + i-C ₄ H ₂ Cl AlCl ₂ (CH ₃) ₃ G ₂ Cl (65%)	E	
	(CH3) GeC4H4 + C4H41 AICH (CH3) Ge1 (80%)		
	(CH ₃) ₃ G ₀ Br + HF + (CH ₃) ₄ GcF (40%) (CH ₃) ₃ G ₀ Br + KSCN $\frac{\text{H}_{1}O}{\text{H}_{2}O}$ (CH ₃) ₃ GeNCS (81%) (C ₂ H ₃) ₃ G ₀ Br + KSCN $\frac{\text{H}_{2}O}{\text{H}_{3}O}$ (C ₄ H ₆) ₃ GeNCS (84%)	1	
	(CH ₃), SiCl + KSCN H ₁ O (CH ₃), SINCS		
	(CH ₄) ₄ G ₆ CI + KO ₄ CCH ₃ H ₁ O (CH ₃) ₄ G ₆ O ₄ CCH ₃ (CH ₄) ₄ SICI + KO ₄ CCH ₄ H ₁ O (CH ₃) ₄ SiOSi (CH ₄) ₅		
Card 2/4	(CII,), GoBr + CH, -CII, -+ (CII,), GoOCII, CH, Ur (82%)	K	

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ACCESSIC	M NR: AP5017961 (CH ₂) ₂ G ₂ G ₂ F + (CH ₂) ₂ SiBr + K + Mc ₂ G ₂ G ₂ G ₃ Mc ₂ (70%) + . + Mc ₂ G ₂ SiMc ₃ (20%) + Mc ₂ SiSiMc ₂ (8%) L	۵۱
	(CH ₃) ₃ SiC ₃ H ₄ MgBr + BrGe (CH ₃) ₅ \rightarrow (CH ₃) ₄ GeC ₄ H ₄ Si(CH ₃) ₅ (89%) M CH = CMgBr + ClGe (CH ₃) ₅ \rightarrow (CH ₃) ₄ GeC = CH (76%) (CH ₃) ₂ SiCH ₂ MgCi + BrGe (CH ₃) ₅ \rightarrow (CH ₃) ₄ GeCH ₄ Si(CH ₃) ₅ (90,5%) (CH ₃) ₅ SiC = CMgBr + ClGe (CH ₃) ₅ \rightarrow (CH ₃) ₄ GeC = CSi(CH ₃) ₅ (87,5%) CH ₂ = CHC = CMgBr + ClGe (CH ₃) ₅ \rightarrow (CH ₃) ₄ GeC = C \rightarrow CH = CH ₂ : (50%)	
	(CH ₂) ₂ SiCH=CHCl+ClGe (CH ₂) ₂ Me (CH ₂) ₂ SiCH=CHGe (CH ₂) ₃ (56%) (CH ₃) ₂ SiCCl+ClGe (CH ₃) ₂ Me (CH ₃) ₃ SiCGe (CH ₃) ₄ (82%) K CH ₅ CH ₅	
Card 3/4		

	their appreci Orig. art.	ation to L. A. has: 14 figure. Zelinskogo A. ances, SSSR)	. Leytes for res and 22	k
SUBMITTED: 07Jun63	cademy of Sci	ences, SSSR)		
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NO REF SOV: 008 O	THER: 007			
		e primering the Second September		
· , - 40				
Card 4/4				

Vacuum ultraviolat absorption smeara of vinyl compounds containing group IV elements, lay, Al SC B. Combins. (MIRA 19:1)

1. Institut erganicheekoy khimil im. N.B. elierkove Al SSSR. Submitted May 12, 1965.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826230

- I, 36990-66 EWP(J)/EWT(m) RM ACC NR: AP6008508 SOURCE CODE: UR/0062/66/000/001/0156/0158

AUTHOR: Petukhov, V. A.; Mironov, V. F.; Kravchenko, A. L.

ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, Academy of Sciences, SSSR (Institut organicheskoy khimii Akademii nauk SSSR)

TITLE: Vacuum ultraviolet absorption spectra of vinyl compounds containing elements of group IV

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 1, 1966, 156-158

TOPIC TAGS: UV spectrum, UV absorption, absorption spectrum, vinyl compound

ABSTRACT: The authors examine the ultraviolet spectra of vinyl compounds of the type CH_2 CH-MR3, M being an element of group IV and R an alkyl radical or halogen, the MR3 group being situated in the immediate vicinity of the double bond. The investigation is performed to check the assumptions that the influence of the inductive effect of this group should be more pronounced than in the allyl compounds and therefore the indications of linking of the vacant d-orbits of the atom of M with the π -electrons of the multiple bond should increase. At the same time the authors acknowledge the possibility of weakening of the linkage of the electrons of the multiple bond with the valence electrons of the MR3 group by virtue of the M atom being situated in the nodal plane of the wave function of the

Card 1/2

UDC: 543,422

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826230

L 36990-66

ACC NR. AP6008508

 π -electrons of the multiple bonds. These characteristics of the structure of vinyl compounds determine the complex dependence of their spectra on the nature of the MR3 substitute. The investigation revealed that substitutes of MR3 and C=C-MR3 and R3M-C=C-MR3 compounds cause a bathochromic effect in the ultraviolet absorption spectra. The effect of the substitutes does not agree with the d- π -linkage mechanism and for its explanation it is necessary to take into account primarily the σ - π -linkage and to a lesser degree the inductive effect. Orig. art. has: 2 figures.

SUB CODE: 07/ SUBM DATE: 12May65/ ORIG REF: 001/ OTH REF: 000

Card 2/2 / 1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 C

CIA-RDP86-00513R000826230

AUTHOR: Mironov, V. F.; Kravchenko, A. L.; Leytes, L. A. ORG: Institute of Organic Chemistry imeni N. D. Zelinskiy, Academy of Science USSR (Institute organicheskoy khimii AN SSSR) TITLE: Synthesis and spectra of silylgermyl- and digermyl- substituted ethylenes SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1966; 1177-1184, TOPIC TAGS: organic synthetic process, organogermanium compound, organosilicon compound, ethylene ARSTRACT: Nonsymmetrical silyl-, germyl- and digermyl-substituted ethylenes of the types R_MCH=CHNR, and (R_H)_2CH, where H = Si and Ge, were synthesized. Substantial exaltation of molecular refraction was observed for 1, 2-substituted othylenes, but not for 1, 1-substituted ethylenes, evidently as a result of the increased polarization of the molecules of the former, due to interaction of the p1-electrons of the double bonds with the vacant d-orbitals of the silicon or germanium atoms. The reactivity of disubstituted ethylenes in ionic addition reactions also increase together with the increasing exaltation of the molecular refraction. The infrared and Raman spectra of these compounds were studied, and it was established that 1, 2-digermylethylenes, just like 1,2-disilylethylenes, possessed a controsymmetrical trans-configuration. In the silylgermyl-substituted othylene molecule, there is no center of symmetry, a situation reflected in its spectra. Orig. art. has: 4 figures, 9 formulas and 3 tables. [JFRS: 38,967] SUB CODE: 07 / SUBM DATE: 29Jan64 / ORIG REF: 014 Cord 1/1 UDC: 542.91 + 543.422 + 546.287 + 661.718.6	SOURCE CODE: UR/0062/66/000/007/1177/1184
double conds with the vacant d-orbitals of the silicon or germanium atoms. The reactivity of disubstituted ethylenes in ionic addition reactions also increase together with the increasing exaltation of the molecular refraction. The infrared and Raman spectra of these compounds were studied, and it was established that 1, 2-digermylethylenes, just like 1,2-disilylethylenes, possessed a controsymmetrical trans-configuration. In the silylgermyl-substituted ethylene molecule, there is no center of symmetry, a situation reflected in its spectra. Orig. art. has: 4 figures, 9 formulas and 3 tables. [JPRS: 38,967] SUB CODE: 07 / SUBM DATE: 29Jan64 / ORIG REF: 014 Cord 1/1 UDC: 542.91 + 543.422 + 546.287 + 661.718.6	OTHOR: Mironov, V. F.; Kravchenko, A. L.; Leytes, L. A. RG: Institute of Organic Chemistry imeni N. D. Zelinskiy, Academy of Science USSR Institut organicheskoy khimii AN SSSR) ITIE: Synthesis and spectra of silylgermyl- and digermyl- substituted ethylenes OURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1966, 1177-1184, OPIC TAGS: organic synthetic process, organogermanium compound, organosilicon OFIC TAGS: Nonsymmetrical silyl-, germyl- and digermyl-substituted ESTRACT: Nonsymmetrical silyl-, germyl- and digermyl-substituted thylenes of the types R_MCH=CHMR, and (R_M)_C=CH_2, where M = Si and Ge, ere synthesized. Substantial exaltation of molecular refraction was bserved for 1, 2-substituted ethylenes, but not for 1, 1-substituted thylenes, evidently as a result of the instrumental of the instrumental of the single-server of the single-se
studied, and it was established that 1, 2-digermylethylenes, just like 1,2-disilylethylenes, possessed a controsymmetrical trans-configuration. In the silylgermyl-substituted othylene molecule, there is no center of symmetry, a situation reflected in its spectra. Orig. art. has: 4 figures, 9 formulas and 3 tables. [JPRS: 38,967] SUB CODE: 07 / SUBM DATE: 29Jan64 / ORIG REF: 014 Cord 1/1 UDC: 542.91 + 543.422 + 546.287 + 661.718.6	ouble conds with the vacant d-orbitals of the silicon or germanium atoms. he reactivity of disubstituted ethylenes in ionic addition reactions
the silylgermyl-substituted othylene molecule, there is no center of symmetry, a situation reflected in its spectra. Orig. art. has: 4 figures, 9 formulas and 3 tables. [JPRS: 38,967] SUB CODE: 07 / SUBM DATE: 29Jan64 / ORIG REF: 014 Cord 1/1 UDC: 542.91 + 543.422 + 546.287 + 661.718.6	udied, and it was established that 1 2 diese compounds were
Card 1/1 UDC: 542.91 + 543.422 + 546.287 + 661.718.6	situation reflected in its spectra. Origination of symmetry,
Card 1/1 UDC: 542.91 + 543.422 + 546.287 + 661.718.6	B CODE: 07 / SUBM DATE: 29Jan64 / ORIG REF: 014
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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826230

DNEPRENKO, K.V.; KRAVCHENKO, A.M.

Portable instrument with photoresistance for the determination of the moisture content of gases. Gaz. prom. 8 no.11:16-19 '63.

(MIRA 17:11)

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

IXMAYLOV, N.A., prof., zasluzhennyy deystel nauki, otv.red.; KRAYCHENKO,
A.N., red.; OVCHARENKO, N.N., kand.khim.nauk, red.; DUBINSKIY,
G.P., dotsent, red.; KOVALEV, P.V., dotsent, red.; TRET'YAKOVA,
A.N., red.; POGOZHEV, P.P., tekhn.red.

CARROLLE BELLEVILLE PRESENTATION OF THE PROPERTY OF THE PROPER

[In the open spaces of the wonderful motherland; collection from the Departments of Physical Education and Sports, and General Physical Geography of Kharkov University and the Kharkov Mountaineering Section]

Na prostorakh rodiny chudesnoi; sbornik kofedry fizicheskogo vospitaniis i sporta i obshchei fizicheskoi geografii Khar'kovskogo ordena Trudovogo Krasnogo Znameni gosudarstvennogo universiteta imeni A.M.Gor'kogo, khar'kovskoi gorodskoi sektsii al'pinizma. Khar'kov, Izd-vo Khar'kovskogo gos.univ., 1959. 397 p.

(MIRA 13:12)

(Mountaineering) (Tourism) (Physical geography)

BUKHALO, S.M., doktor ekonom. nauk; GENSIRUK, S.A., kand. sel'skokhoz.
nauk; KHAYCHENKO, A.N., gornyy inzh.

Reduce the consumption of wood materials in the coal industry
of the Ukraine. Ugol' Ukr. 7 no.7:31-33 Jl '63. (MIRA 16:8)

(Ukraine-Wood)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826230

L 45453-66 $E_{N}T(1)$ SOURCE CODE: UR/0000/65/000/000/0027/0035 (N) ACC NR: AT6020422 70 Milyakh, A. N.; Kravchenko, A. N. AUTHOR: B+1 Institute of Electrodynamics, AN UkrSSR (Institut elektrodinamiki AN UkrSSR) ORG: TITLE: Three phase gyrators at industrial frequencies SOURCE: AN UkrSSR. Preobrazovaniye i stabilizatsiya elektromagnitnykh protsessov (Conversion and stabilization of electromagnetic processes). Kiev, Naukova dumka, 1965, 27-35 TOPIC TAGS: gyrator, electric transformer, electromagnetism, SHF, ferrite, electronic cucuit, worrequide element ABSTRACT: A fifth element, called a gyrator, has been added to the usual electrical circuit elements of resistance R, inductance L, capacitance C, and mutual inductance L₁₂. The gyrator is, in principle, a passive element, since it satisfies no mutuality principle. Gyrator use has become widespread in the past 10 years in super-high frequency engineering of waveguide elements with nonreversible gating properties. Ferrites are usually used as gyrators in the super-high frequency range. It is extremely attractive to make a nonreversible electromagnetic device of the gyrator type to function at the industrial frequency of 50 cps. The article proceeds to describe one of the possible principles involved in building multiphase nonreversible devices and also describes their basic properties. The field of a device consisting of two Card 1/2

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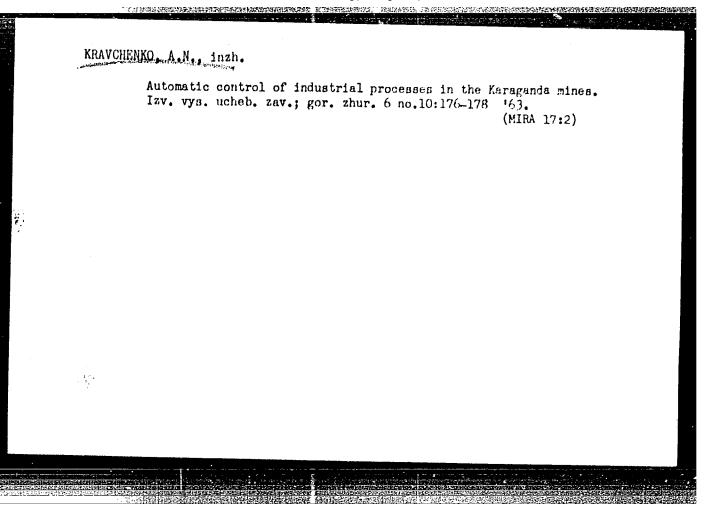
ACC NR: AT6020422

three phase concentric windings in air (an air transformer) displaced by an appropriate angle was investigated. Two operating conditions were established. Electromagnetic excitation was transmitted to the rotating magnetic field in the same direction in both cases, resulting in different trajectories for each case, and establishing the nonreversibility of the transmission process, so that three phase devices with rotating magnetic fields can be called nonreversible devices. Electromagnetic processes in the air transformer are no different from those occurring in the transformer consisting of a three phase braked wound rotor induction motor, field excitation conditions being the same. The processes occurring in the latter are examined. A method for making a three phase transformer with nonreversible properties, consisting of a transformer with a rotating magnetic field and condensers, is described and is suggested as a three phase gyrator at industrial frequency. Org. art. has: 3 figures and 13 formulas.

SUB CODE: 09, 20 / SUBM DATE: 26 Oct 65 / ORIG REF: 006

Card 2/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826230



POSTNIKOV, I.M., doktor tekhn.nauk, prof. (Kiyev); NIZHNIK, L.P., kand.fiz.ma.bom.nauk (Kiyev); BEREZOVSKIY, A.A., kand.fiz.-matem.nauk (Kiyev);
KRAVCHENKO, A.N., inzh. (Kiyev)

Calculation of a traveling electromagnetic field in a lamellar conductive medium. Elektrichestvo no.9:1-7 S *65.

(MIRA 18:10)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826230

BEREZOVSKIY, Arnol'd Anatol'yevich; KRAVCHENKO, Adol'f Kikitovich

[Nonlinear boundary problems of an electromagnetic field]
0 nelinoinykh kraevykh zadachakh elektromagnitnogo polia.
Kiev, Izd-vo AN USSR, 1963. 73 p. (MIRA 17:9)

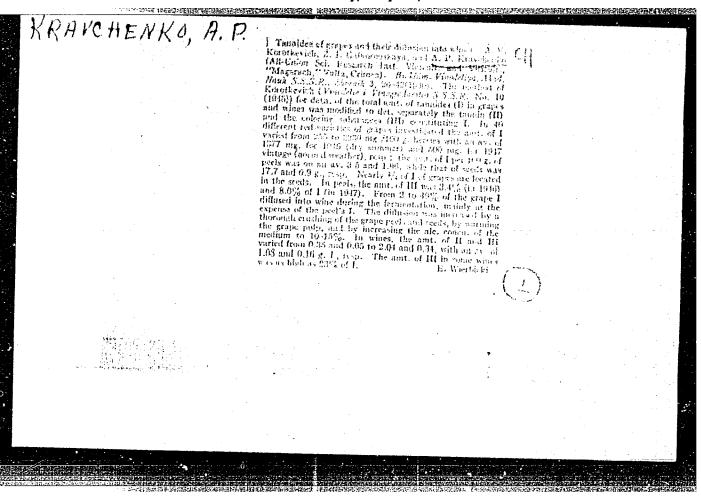
KRAVCHENKO, A.P.

Spectral analysis of iron powder for silicon and manganese.
Zav. lab. 31 no.11:1348 '65. (MIRA 19:1)

1. Dneprovskiy alyuminevyy zavod imeni Kirova.

"APPROVED FOR RELEASE: Monday, July 31, 2000

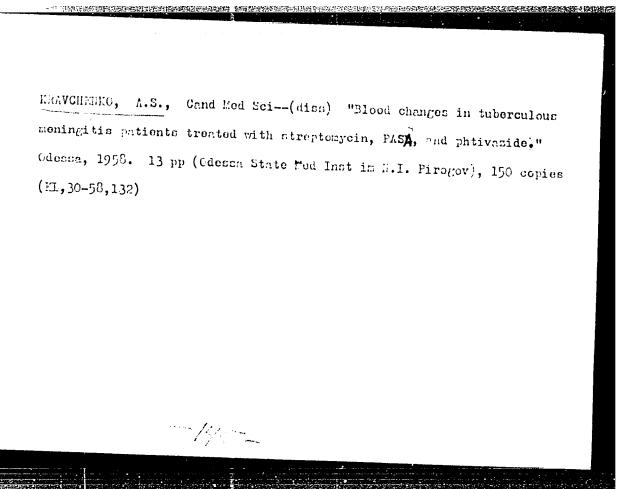
CIA-RDP86-00513R000826230



MARGOLIS, L.D.; KRAVCHENKO, A.P.; MUZYCHENKO, V.V.

Flame photometry determination of sodium oxide in slimes of alumina production. Zav. lab. 28 no.9:1072-1075 '62.

1. Dneprovskiy alyuminiyevyy zavod im. S.M. Kirova.
(Sodium oxide) (Flame photometry)



KRAVCHENKO, A.S., inzh.

Screw-conveyor type sugar beet cleaner. Trakt. i sel'khozmash. no.5:
28-31 My '59. (MIRA 12:6)

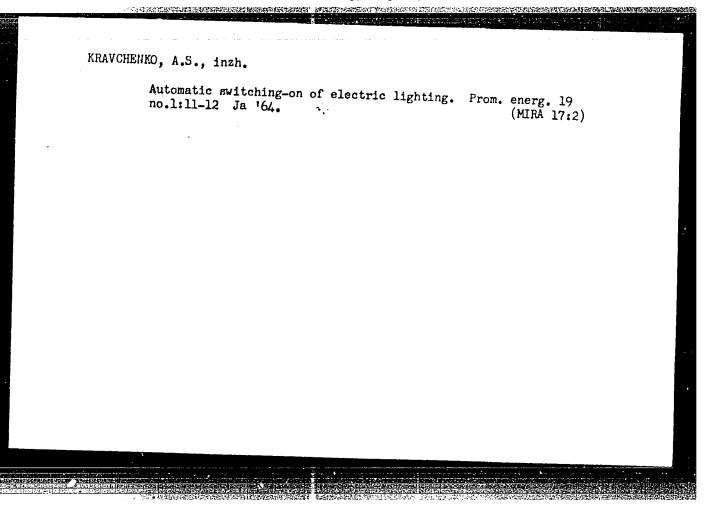
1.Spetsial'noye konstruktorskoye byuro zavoda im. Voroshilova.
(Sugar beets--Harvesting)

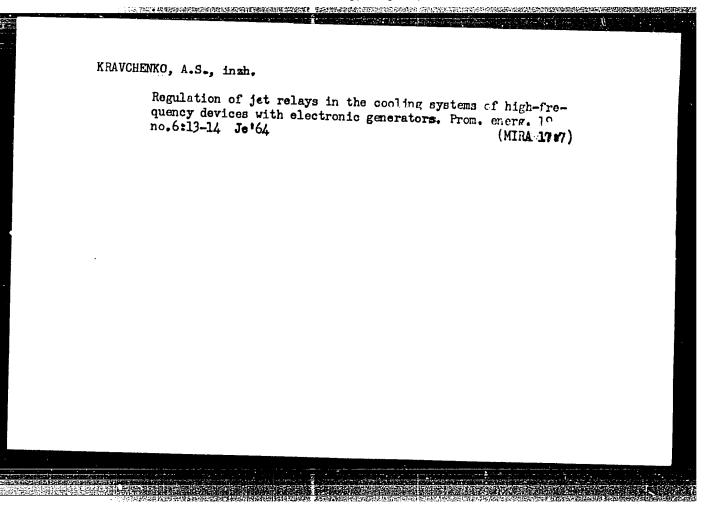
KRAVCHENKO, A.S., inzh.

Automatic steering of a sugar beet combine along rows.
Trakt. i sel'khozmash. 33 no.10:34-35 0 163.

(MHA 17:1)

1. Spetsial'noye konstruktorskoye byuro Dnepropetrovskogo zavoda sel'skokhozyaystvennykh mashin.





"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826230

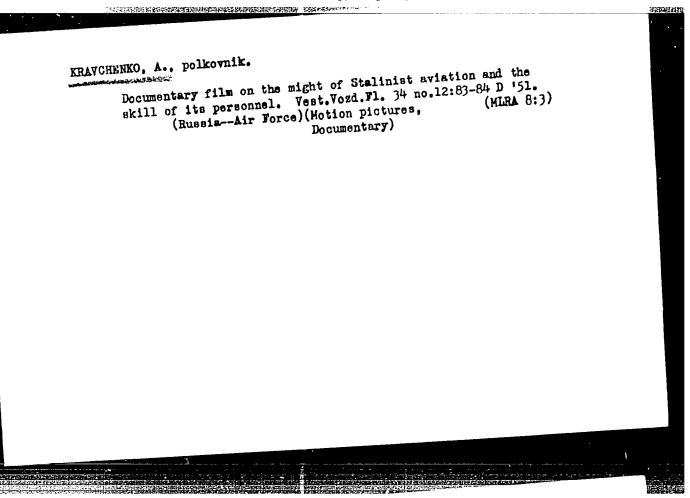
KRAVCHENKO, A., COL PA 40/49T13 UBSR/Aeronautics Feb 49 Airplanes, Fighter Airplanes - Maneuverability "mighter's Vertical Maneuver," Col A. Kravchenko, 5 pp "Test Vozdush Flota" No 2 Donoribes "vertical maneuvering" as best means to attain high speeds. Briefly mentions some of the designers responsible for high-speed vertical tactics, and generalizes success of this mode of flying during World War II. Claims Soviets were first to employ "vertical maneuvering" with jet aircraft. 40/49T13

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826230

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KRAVCHENKO, A.,	, COL	Pg. 1731'3	
	<i>f</i> .		
		USER/Aeronautics - Combat Formations Oct 49	
	! :	"Changes in Scubat Formations of Soviet Fight- ers," Col A. Kravchenko	
		"Vest Vozdush Flota" No 10, pp 7-13	
		Reviews development of combat formations from World War I to now. Describes no definite combat method or formation. Pays special attention to combat formations using aircraft.	c c
	· 1 · _	17373	

		 . •
USSR/Aeronautics - Flying	Feb 50	
"Chkalov's School of Flying Skill," Col chenko	A. Krav-	
"Vest Vozdush Flota" No 2, pp 29-34		
Describes activity of V. P. Chkalov and methods, such as complex execution of a acrobatic maneuvers, aerial fire from a of airplane, precise landing. Largely glorifying Stalin, Communist Party, Sov their achievements in avn.	dvanced and ny position devoted to	
<u> </u>	173713	



"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826230

KRAVCHENKO A

AID P - 3478

Subject

: USSR/Aeronautics

card 1/1

Pub. 135 - 13/20

Kravchenko, A., Col., Dotsent, Kand. of Tech. Sci.

Author

Combats of the Soviet Air Force at the beginning of AN AN CONTRACTOR OF A CASA CASAS

Title

the Great Patriotic War (World War II)

Vest. voz. flota, 12, 64-70, D 1955

Periodical Abstract

The author describes the military action of the Soviet Air Force on various fronts in 1941. He mentions names

of well known flyers and several types of aircraft.

Institution

None

Submitted

No date

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826230

KRA VCHINAC, A.

84-11-21/36

. AUTHOR:

Kravchenko, A., Engineer

TITLE:

Antennas for Ground-to-Air Transmission (Peredayushchiye

antenny dlya svyazi s samoletami)

PERIODICAL:

Grazhdanskaya aviatsiya, 1957, Nr 11, pp. 22-24 (USSR)

ABSTRACT:

Properties of wide-band horizontal dipoles and Vshaped horizontal antennas under different circumstances of communication with air from the area air traffic centers, are discussed. Wavelengths of 50, 80, 120 and 140 m are considered in respect to the directionality, at ranges of 200, 400 and 600 km. The conclusion is that two antennas, one for daytime, the other for night use, are necessary at the traffic centers to insure roundthe-clock service. If the flights in the area are confined to certain directions only, two suitably oriented dipoles will meet the requirements. If all directions are involved, a V-antenna is used during the daytime. The antennas are suspended 19 m above the ground for distances of the order of 600 km., and 10 m for distances of about 400 km.

Card 1/2

84-11-21/36

Antennas for Ground-to-Air Transmission (Cont.)

A table shows the wavebands and the usable dipoles, depending on the traveling wave ratios. Three sets of diagrams accompany the text, showing the directionality characteristics of two types of dipoles and V antennas at different wavebands.

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AVAILABLE: Library of Congress

Card 2/2

KRAVEHENAC, N.S.

86-10-33/44

AUTHOR:

Kravchenko, A. S., Col, Dotsent, Candid. of Mil. Sciences

TITLE:

The Improved Air Force Tactics in the Years of the Great Patriotic War (Sovershenstvovaniye taktiki VVS v gody

Velikoy Otechestvennoy voyny)

PERIODICAL:

Vestnik Vozdushnogo Flota, 1957, Nr 10, pp. 49-55 (USSR)

ABSTRACT:

In this article the author gives a condensed review of the development of the Soviet Air Force tactics during the Great Patriotic War. The author states that during the first period of war the Soviet Air Force had to carry out its combat missions under exceptionally difficult circumstances. A considerably high percentage of obsolete aircraft, the limited use of radio communications for the control of aircraft from the ground and in the air, too frequent shifting of air force units from one airfield to another, the dispersed actions of air force units in the area of entire front line, and the exceptionally heavy strain placed on the personnel, lessened considerably the combat capabilities of the Air Force and gave the initiative to the enemy air force. Because of that, the overall actions of the Soviet Air Force during the first period

CARD 1/3

CIA-RDP86-00513R0008262300 APPROVED FOR RELEASE: Monday, July 31, 2000

86-10-33/44

The Improved Air Force Tactics in the Years of the Great Patriotic

of war were limited to the support of ground troops only. Thanks to the initiative of commanders and to the arrival of new types of aircraft, an improvement in the Air Force tactics began. In the fighter aviation the number of aircraft in the flights was increased from 3 to 4 aircraft, which enabled the fighter pilots to operate in pairs. The pilots learned how to use the high maneuvering capabilities of new aircraft, and vertical maneuvers were mainly used in air battles. The fighter formations became more dispersed and the flights in formations were echeloned at greater altitudes above each other. For the escort of bombers and shturmoviks the fighter formations consisted of the following tactical subdivisions: the striking force, the air cover, and the reserve. During the war the bombers began to deliver concentrated blows against the targets in the most important directions. They bombed strongly fortified and small-size targets. "Circle", "eight", and "vane" type tactical maneuvers were applied. The targets were attacked on several approaches. The attack of dive bombers became more accurate.

CARD 2/3

. war (Cont.)

86-10-33/44

The Improved Air Force Tactics in the Years of the Great Patriotic War (Cont.)

Contour flying for the approach of targets was used by the shturmoviks. Shortly before the target the shturmoviks zoomed to an altitude of 600 - 800 m and then attacked the target from a dive. For repeated attacks the combat order "circle" was used. The shturmoviks attacked not only the targets on the battlefield, but carried out attacks also against the airfields, railroad stations, stores and other objectives in the enemy rear. Thanks to a wider use of radio communications, the combat missions were carried out by all branches of the air force more successfully, particularly by the fighter aviation. One photo.

AVAILABLE:

Library of Congress

CARD 3/3

KRAYCHEMEO, A.S., general-mayor aviatsii, dotsent, kand.voyennykh nauk
SHISHOV, L.M., polkovnik, Geroy Sovetskogo Soyuza, dotsent, kand.
voyennykh nauk.

Lenin's concern for the creation of the Soviet Air Force.
Vest.Vozd.Fl. -ag.4:13-21 Ap '60. (MIRA 13:8)

(Lenin, Yladimir 11'ich, 1870-1924)

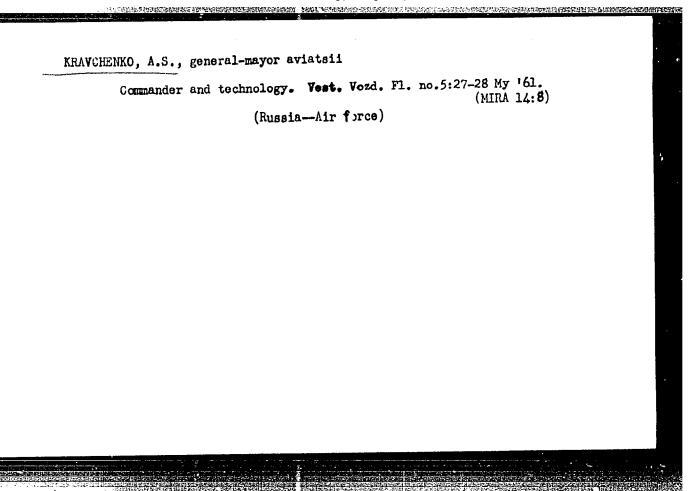
(Buesia-Air force)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262300

Resourcefulness and ability. Voen. znan. 36 no.9:11-12 S '60.

(MIRA 13:9)

(Tactics)



"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826230

L 20724-65 EWT(d)/EWT(m)/FA/EWP(h) AFWI/SSD LHF

ACCESSION NR: AP4049503

5/0209/64/000/011/0042/0049

AUTHOR: Kravchenko, A. (Air Force Major General, Professor)

TITLE: A change in the techniques of military aviation 4

SOURCE: Aviatsiya I kosmonavtika, no. 11, 1964, 42-49

TOPIC TAGS: military aviation, aerial warfare, ground support, tactical air

force, aircraft speed, atomic bomb

ABSTRACT: The author commences with a summary of the history of military aviation and gives the speeds of various types of military aircraft at various stages in their development. He points out that nuclear weapons and rockets of various kinds were introduced with the advent of supersonic flight. The author comments that while various branches of the military have applied nuclear weapons and rockets to the destruction of large stationary objects, military aviation has been faced with the task of destroying large movable objects such as combat aircraft carriers, rocket-carrying submarines, etc., which constitute great danger to military and industrial targets, cities and populations. A paragraph is devoted to targets and the capabilities for seeking them out. The author states that the arming of planes with nuclear weapons greatly influenced the composition and form of combat caviation. This is followed by an analysis of the composition and methods of the

L 20724-65

ACCESSION NR: AP4049503

Soviet Air Force, as well as of the difficulties that might be encountered over various terrains. The author comments on supersonic aircraft flying at 60,000 meters. Since high speeds result in high rates of fuel consumption, all planes must be designed and built carefully with no errors permissible. The author also stresses that the time element has become of the utmost importance, and that this calls for high-caliber commanders. He makes a point of the fact that while the proper political orientation must be carried on as an important command criterion, commanders and their personnel must be highly-qualified technically as well.

Orig. art. has: 4 photographs.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: HS, AC

NO REF SOV: 000

OTHER: 000

Card 2/2

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826230

PERSONAL PROPERTY OF THE PROPE

YHDOVICH, V.G.; KHIEB RODOV, A.D.; GOLOREVICH, YO.A., VECTO, J.,
PANOV, F.S.; BELYAYLV, A.N.; ALADCIN, C.I., CSITET, J.,
VOROB TEV, A.I.; PROCEST, V. T.V., SOLOV G.V., YA.A.,
KHIZMIN, A.V. ZHIBORIS, V.H., ZGIN, A.V. CATERY,
DOBROSLAVSKIC, V.L., TROWHROV, Y.E., IRVANIC, Y.R.;
KOROLEV, V.F.; KERIELV, H.B., KRAVIHERG, A.S., RYVIN, J.R.
GHROHENKO, A.F.; KHOGLIKOV, T.F.; CHERGRARAV, F.S.; EARLING,
H.K.

Authoris' Cartillantes mod promote. Machine transcription of the 103 June 165.

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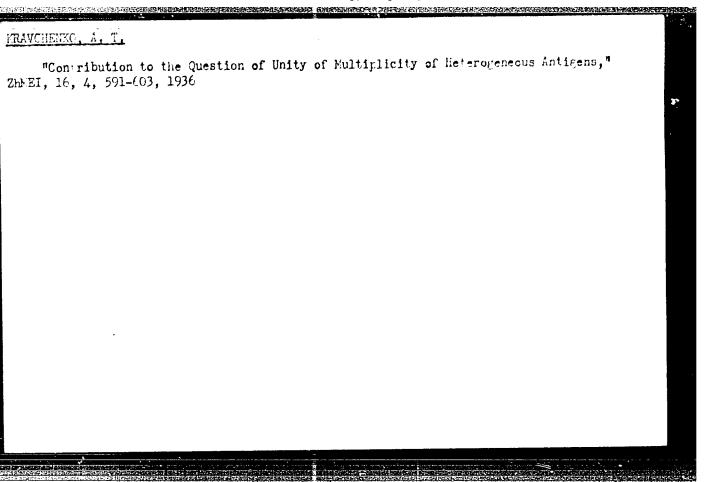
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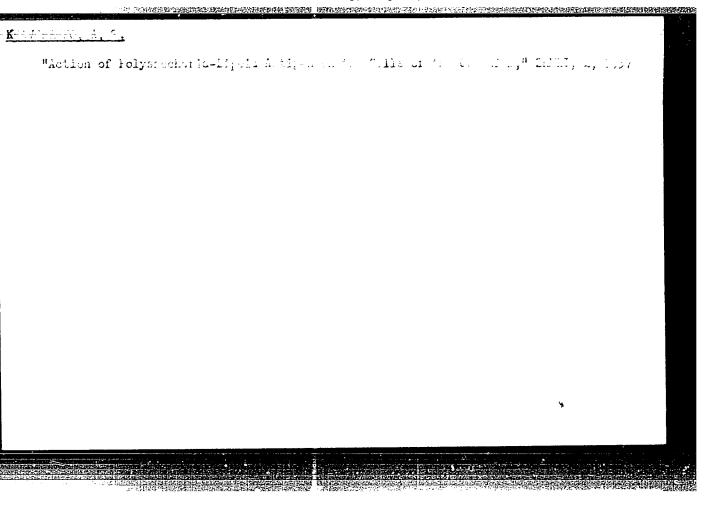
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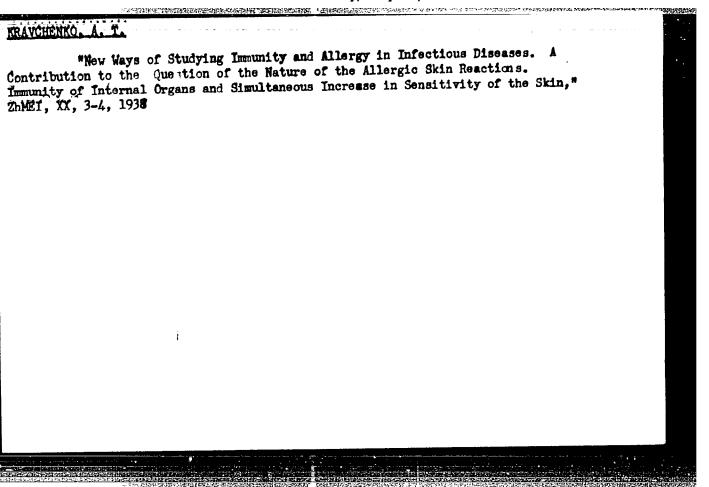
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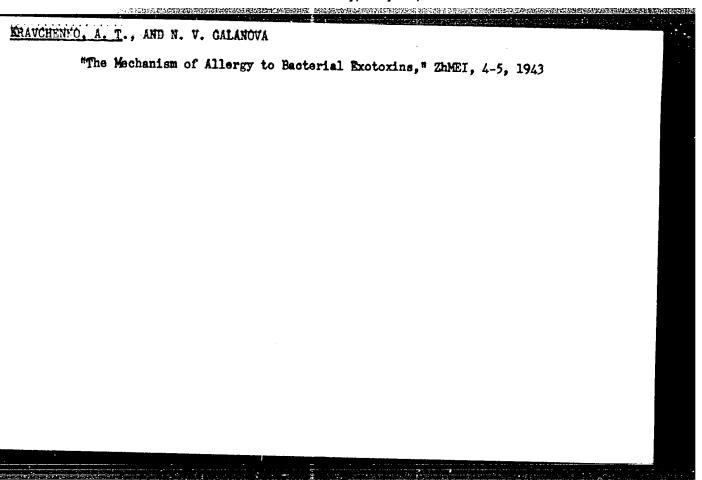


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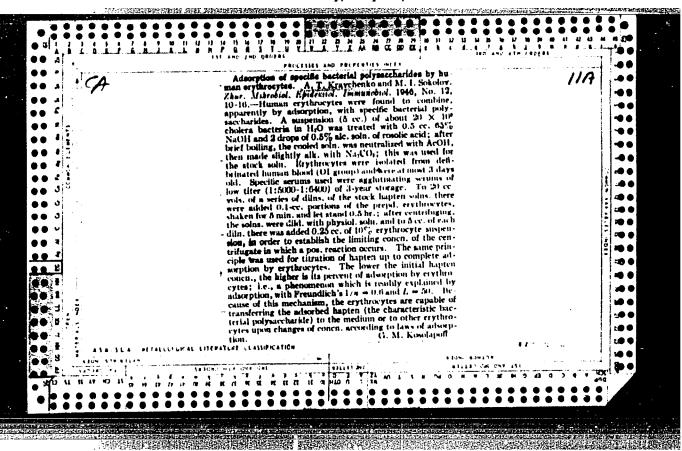
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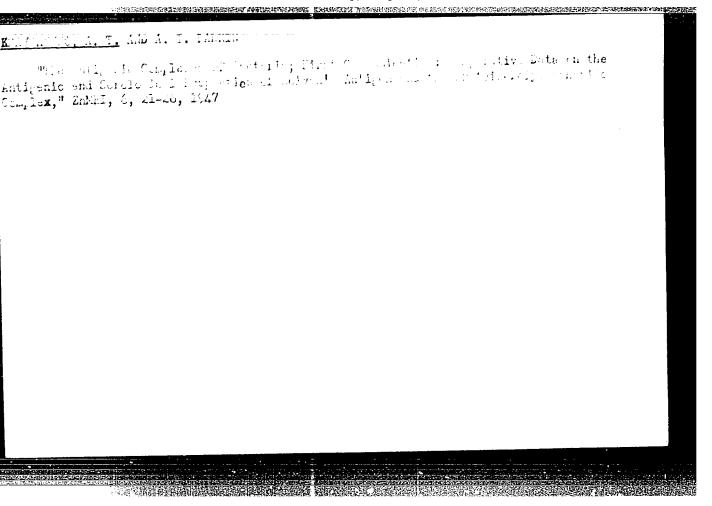
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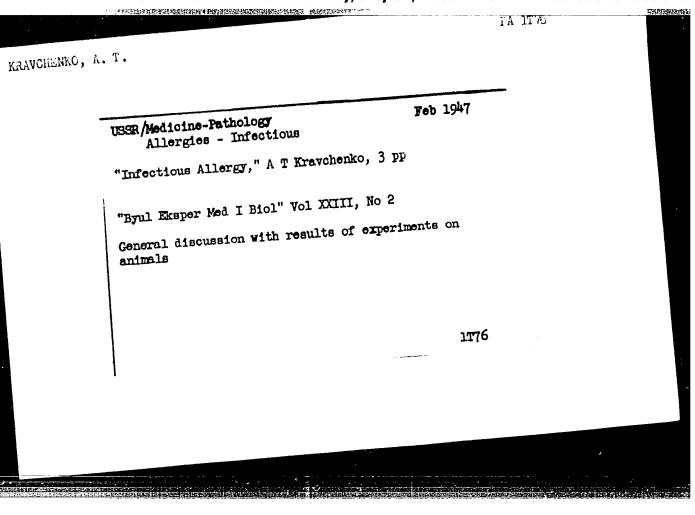
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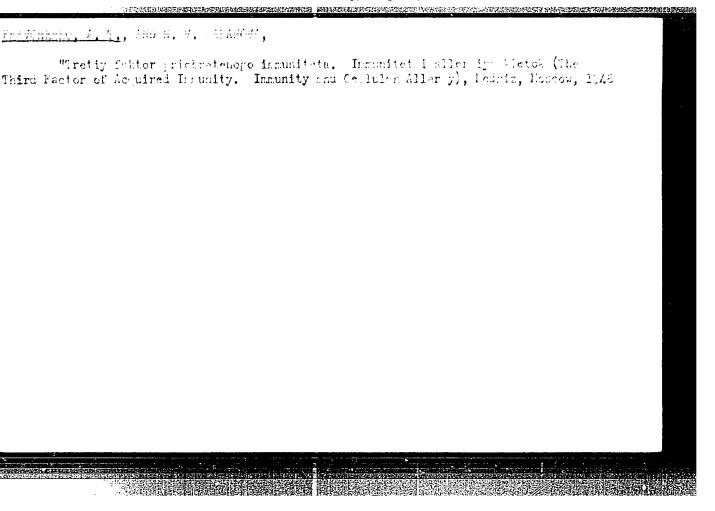
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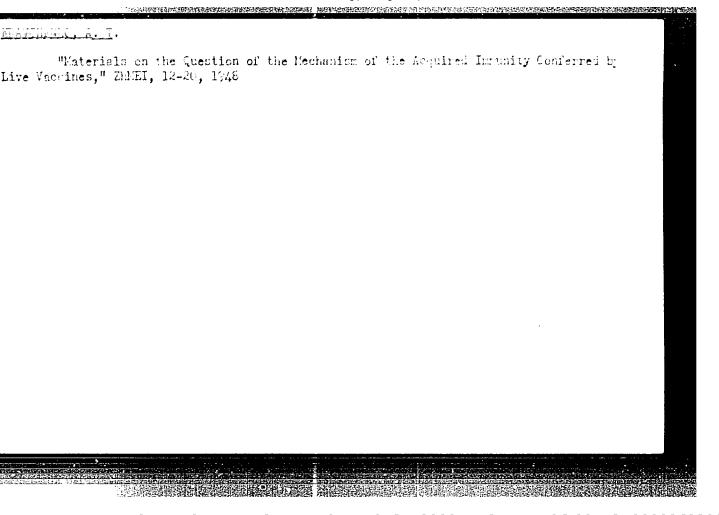
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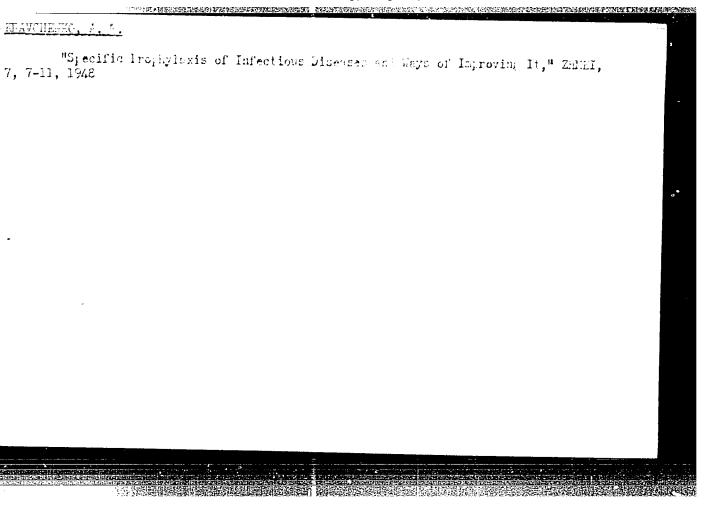
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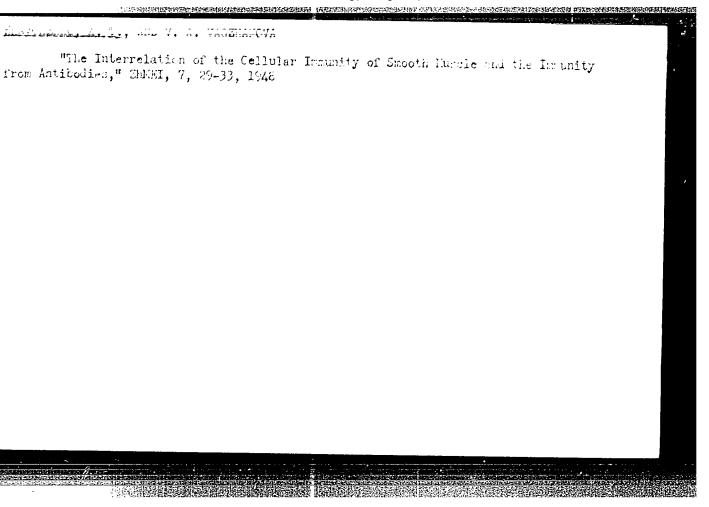
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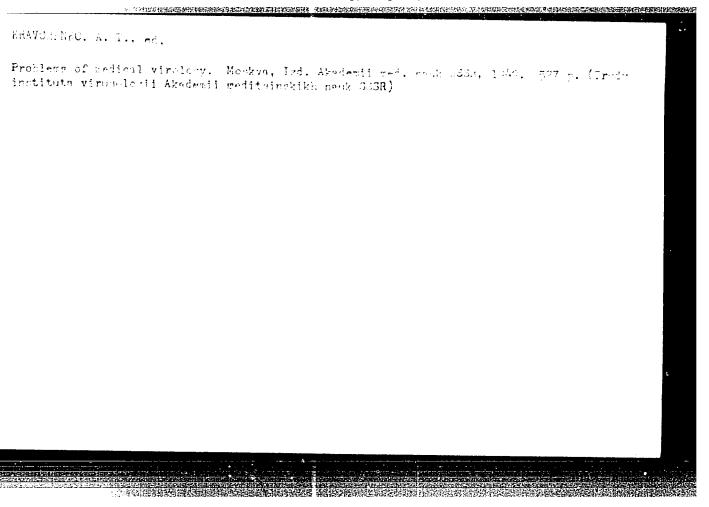
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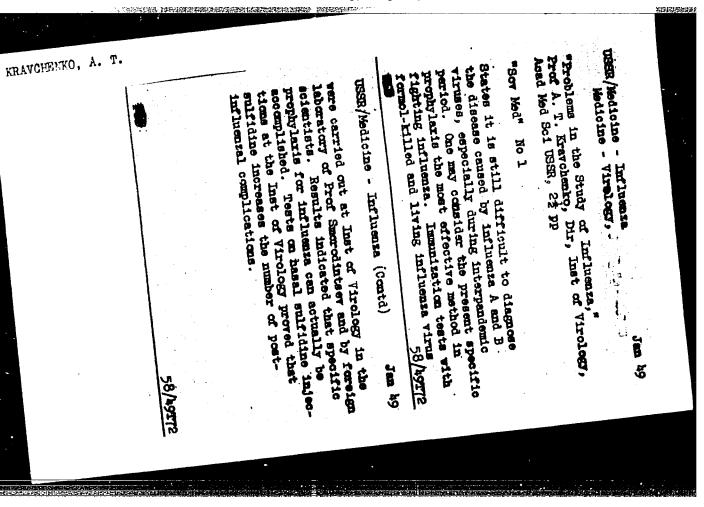
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